

Collagen alpha-1 Recombinant Protein | COL8A1 recombinant protein

Recombinant Human Collagen alpha-1 Protein

CATALOG #
AAA174010

HOST
Human Cells

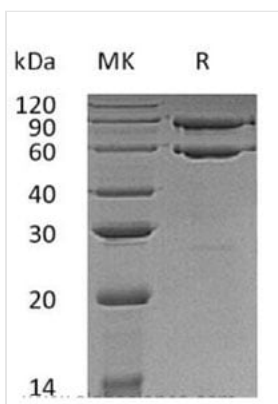
PRODUCT SYNONYMS

Collagen alpha-1; Recombinant Human Collagen alpha-1 Protein; Collagen Alpha-1(VIII) Chain; Endothelial Collagen; Vastatin; COL8A1; C3orf7; COL8A1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	>95% as determined by reducing SDS-PAGE.
Form/Format	Lyophilized from a 0.2 um filtered solution of 20mM PB,150mM NaCl, pH 7.2.
Sequence Positions	Gly28-Met744
Sequence Length	744
Species	Human
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water(66ul) be added to the vial to prepare a stock solution of 0.15mg/mL. Concentration is measured by UV-Vis.
Endotoxin	<1.0 EU per ug as determined by LAL test.
Fusion Tag	C-6His
Preparation and Storage	Lyophilized proteins are stable for up to 12 months when stored at -20°C to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for COL8A1 recombinant protein	Collagen alpha-1(VIII) chain, also known as endothelial collagen, C3orf7 and COL8A1, can be cleaved into vastatin chain. COL8A1 is a short chain collagen and a major component of the basement membrane of the corneal endothelium. COL8A1 forms homotrimers, or heterotrimers in association with alpha 2(VIII) type collagens. Four homotrimers can form a tetrahedron stabilized by central interacting C-terminal NC1 trimers. COL8A1 contains one C1q domain and is primarily expressed in the subendothelium of large blood vessels. The expression level can be up-regulated during vascular injury, in atherosclerosis and in diabetes. COL8A1 may have a role in the maintenance of vessel wall integrity and structure, in particular in atherogenesis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	17738302
NCBI GeneID	1295
NCBI Accession #	NP_001841.2
NCBI GenBank Nucleotide #	NM_001850.4
UniProt Accession #	P27658; Q53XI6; Q96D07; D3DN42
Molecular Weight	Molecular Mass: 71.6 kDa Actual Protein Molecular Mass: 58-85 kDa
NCBI Official Full Name	collagen alpha-1(VIII) chain
NCBI Official Synonym Full Names	collagen type VIII alpha 1 chain
NCBI Official Symbol	COL8A1
NCBI Official Synonym Symbols	C3orf7
NCBI Protein Information	collagen alpha-1(VIII) chain
UniProt Protein Name	Collagen alpha-1(VIII) chain
UniProt Gene Name	COL8A1
UniProt Synonym Gene Names	C3orf7

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.